

What is claimed is:

1. A Venetian blind comprising a headrail, a bottom rail, a set of slats supported between the headrail and the bottom rail, and a blind control system, the control system comprising:

5 (a) a spacing adjustment set comprising a support, a spacing cord connected to the bottom rail and adapted to decrease or increase a spacing between pairs of the slats, and a spacing adjustment wheel rotatably engaged to the support to roll up or let off the spacing cord;

10 (b) an angle adjustment set comprising an angle cord adapted to tilt the slats, an angle adjustment member rotatably supported relative to the support and adapted to roll up or let off the angle cord; and

 (c) a drive mechanism for selectively driving the
15 spacing adjustment wheel and the angle adjustment member to adjust both the spacing of the spacing adjustment set or the tilt of the angle adjustment set.

2. The Venetian blind as claimed in claim 1, wherein the drive mechanism comprises:

20 (a) an operating device coupled to the spacing adjustment wheel;

 (b) a friction coupling between the spacing adjustment wheel and the angle adjustment

member; and

5 (c) a stop device coupled between the angle adjustment member and the support to limit rotation of the angle adjustment member to a predetermined angle, whereby the angle adjustment member is rotated by the spacing adjustment wheel as limited by the stop device upon rotary motion of the spacing adjustment wheel.

10 3. The Venetian blind as claimed in claim 2, wherein the stop device comprises a shoulder projecting at one side of the support, and a protruding block projecting from the angle adjustment member and adapted to act against the shoulder of the support.

15 4. The Venetian blind as claimed in claim 2, wherein the friction coupling comprises spring means mounted in between the support and the angle adjustment member and forcing the angle adjustment member against the spacing adjustment wheel to produce frictional contact therebetween.

20 5. The Venetian blind as claimed in claim 4, wherein the spring means is a coiled spring.

6. The Venetian blind as claimed in claim 1, wherein the spacing adjustment wheel comprises a conical end portion disposed in

the periphery thereof at one end and adapted to guide winding of the spacing cord round the spacing adjustment wheel.

7. The Venetian blind as claimed in claim 2, wherein the drive mechanism comprises an operating device and a transmission shaft coupled between the spacing adjustment wheel and the operating device.

8. The Venetian blind as claimed in claim 7, wherein the drive mechanism further comprises a worm and worm gear meshed therewith coupled between the operating device and the transmission shaft.

9. The Venetian blind as claimed in claim 7, wherein the drive mechanism further comprises a driving force input member coupled to the transmission shaft, wherein the operating device has an operating portion at one end thereof and an actuating portion at an opposite end thereof for selectively rotating the driving force input member, the actuating portion having a coupling tip removably connectable to the driving force input member for rotating the transmission shaft.

10. The Venetian blind as claimed in claim 9, wherein the operating device comprises a hand crank.

11. The Venetian blind as claimed in claim 2, wherein the drive mechanism comprises a reversible motor, a transmission shaft coupled between the reversible motor and the spacing

adjustment wheel and driven by the reversible motor to rotate the spacing adjustment wheel, and a control circuit for operating the reversible motor in response to operator input.

12. The Venetian blind as claimed in claim 11, wherein the
5 transmission shaft has a non-circular cross section fitted into a non-circular axial center through hole of the spacing adjustment wheel.

13. The Venetian blind as claimed in claim 11, wherein the control
circuit comprises a remote controller having a signal transmitter
10 adapted to transmit control signals, and a signal receiver adapted to receive control signals from the signal transmitter and to control operation of the reversible motor in response to the received control signal.

14. The Venetian blind as claimed in claim 11, further comprising a
15 detector adapted to cut off power supply from the reversible motor when the slats of the Venetian blind lifted or lowered to respective upper limit or lower limit positions.

15. The Venetian blind as claimed in claim 14, wherein the detector
comprises a fixedly supported locating block, a wheel supported
20 in the locating block and coupled to the drive mechanism for rotation and axial movement upon operation of the drive mechanism, and two limit switches disposed at two sides in axial displacement path of the wheel of the detector and electrically

connected to the reversible motor and adapted to cut off power supply from the motor when touched by the wheel of the detector.

16. The Venetian blind as claimed in claim 15, wherein the limit
5 switches are respectively disposed in positions corresponding to the respective upper and lower limit positions of the lifting and lowering of the slats of the Venetian blind.

17. The Venetian blind as claimed in claim 11, wherein the motor is
mounted in an operating device, the operating device being
10 removably connectable for driving the transmission shaft.

18. The Venetian blind as claimed in claim 11, further comprising a worm and worm gear meshed therewith coupled between the motor and the transmission shaft.

19. The Venetian blind as claimed in claim 1, wherein the drive
15 mechanism comprises:

(a) a linking mechanism mounted in the headrail, the linking mechanism comprising:

(ii) a first driving force input unit rotatable by
an external rotary driving force, the first
20 driving force input unit having a driving force receiving portion adapted to receive an external rotary driving force, and a first driving force output unit coupled to the

spacing adjustment wheel;

- 5 (ii) a second driving force input unit rotatable by the external rotary driving force, the second driving force input unit having a driving force receiving portion adapted to receive the external rotary driving force, and a second driving force output unit coupled to the angle adjustment member; and
- 10 (iii) an operating device selectively connectable to the first and second driving force input units for operation to rotate the driving force input units.

20. The Venetian blind as claimed in claim 19, wherein the

15 operating device has an operating portion at one end thereof for operation by hand and an actuating portion at an opposite end thereof for selectively rotating the first and second driving force input units, the actuating portion having a coupling tip connectable to the driving force receiving portion of the selected

20 driving force input unit.

21. The Venetian blind as claimed in claim 20, wherein the operating device comprises a hand crank.

22. The Venetian blind as claimed in claim 19, wherein the

operating device comprises a casing having an operating portion at one end thereof, an actuating portion at an opposite end thereof for selectively rotating the first and second driving force input units, the actuating portion having a coupling tip
5 connectable to the driving force receiving portion of the selected driving force input unit, a motor mounted within the casing and coupled to the coupling tip for rotation thereof, means for receiving a battery in the casing, and manually operable controls for selectively powering the motor from a battery.

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